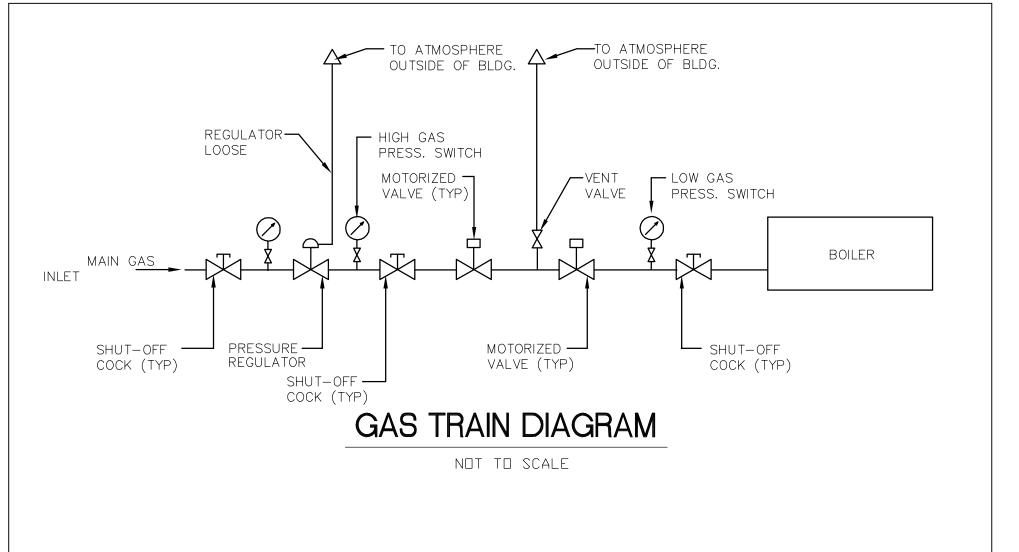
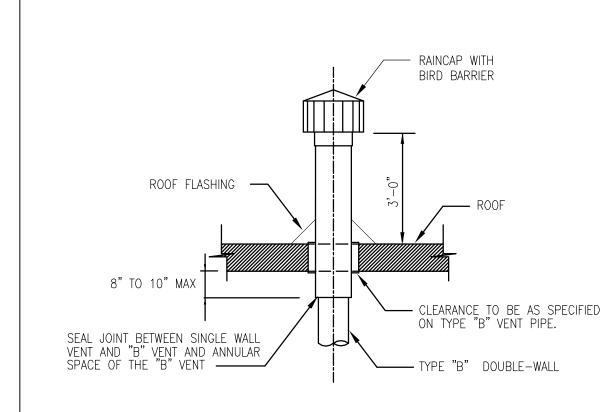


WATER PUMP PIPING END SUCTION PUMP DETAIL

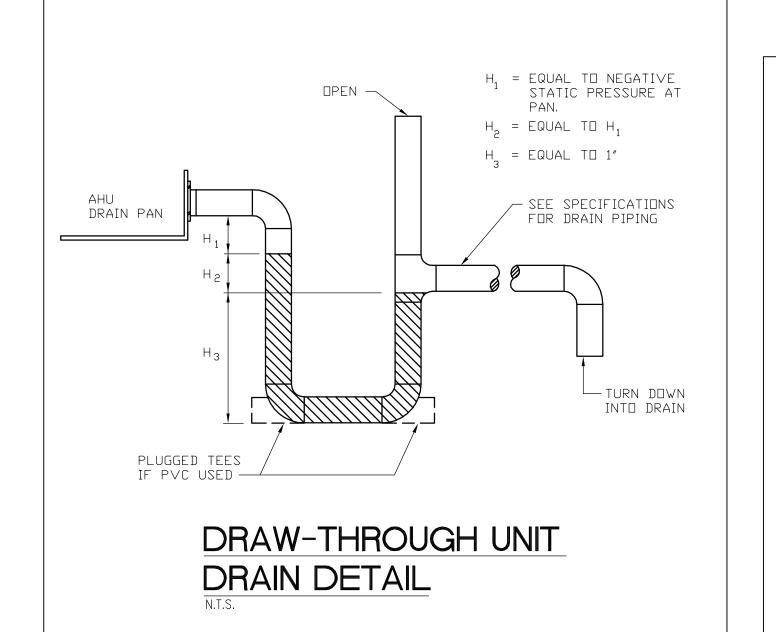
NOT TO SCALE





DETAIL - TYPICAL FLUE TERMINAL

NOT TO SCALE



VALVE

ONE HIGH VERT. WATER COIL PIPING

(THROTTLING CONTROL VALVE)

3/4"

NOTE 7 -

3/4" PIPE TO _

NEAREST DRAIN

— TO WATER

RETURN MAIN

CONTROL VALVE

P.P. = PETE'S PLUG

1. PRESSURE GAUGE TEST CONNECTION;

3. LOCATE RISERS TO CLEAR TUBE PULL.

END PIPING IS SIMILAR AS SHOWN.

5. INSTALL COIL PIPING FOR COUNTER FLOW.

PROVIDE THERMOMETERS.

6. VENTS TO BE MANUAL TYPE.

PROVIDE GAUGES IF REQUIRED BY SPECS.

SEPARABLE SOCKETS FOR THERMOMETERS;

4. FOR SYSTEMS WITH COILS (2) WIDE OPPOSITE

7. PROVIDE 3/4" CAPPED HOSE BIB CONNECTION FOR HOT

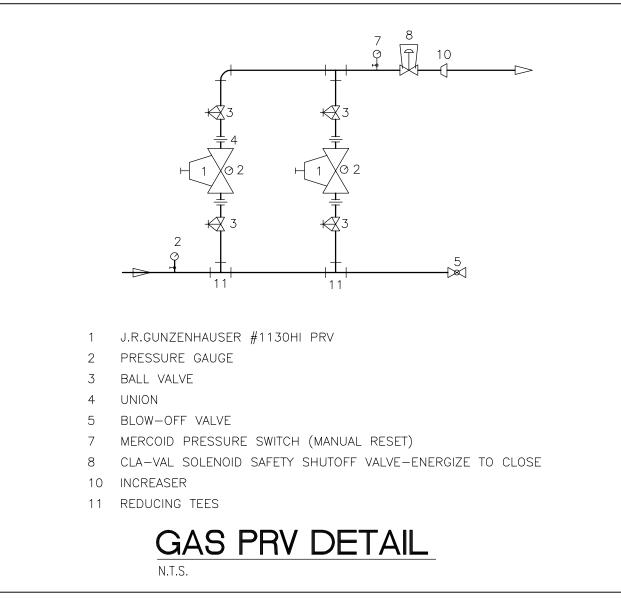
SEE SPECIFICATIONS FOR ADDITIONAL DETAILS.

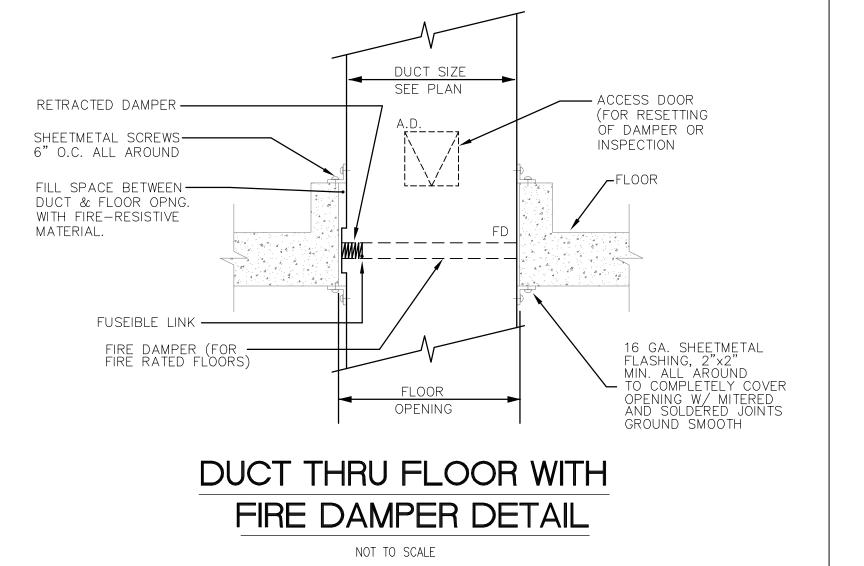
9. PROVIDE PETE'S PLUG ACROSS THE STRAINER.

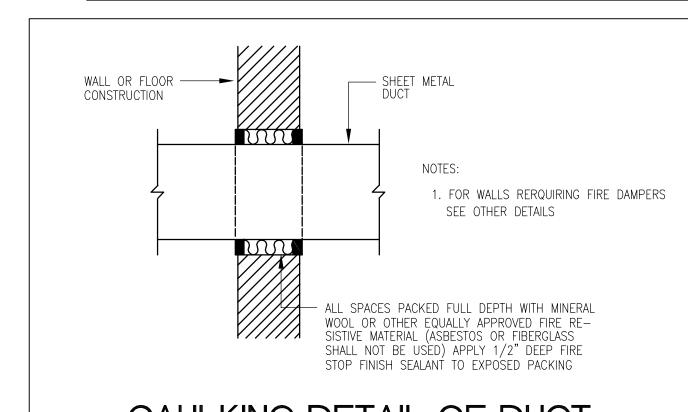
WATER COILS ONLY THAT ARE LOCATED ABOVE HUNG CEILING.

8. PROVIDE GALVANIZED STEEL DRAIN PAN UNDER ALL COOLING COILS

STRAINER—







CAULKING DETAIL OF DUCT PIERCING RATED ASSEMBLIES WHERE

NOT TO SCALE

FIRE DAMPERS ARE NOT REQUIRED

ISSIT.

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DULUTH AIRPORT AUTHORITY

DULUTH INTERNATIONAL AIRPORT DULUTH, MN

NEW PASSENGER TERMINAL

CONSULTANTS

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BNP ASSOCIATES INC.

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APPOLD DESIGN
2432 East First Street, Duluth MN 55812

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ENGINEER CERTIFICATION
I hereby certify that the
engineerinhg plans, specifications
or report was prepared by me or
under my direct supervision and

that I am a duly licensed Professional Engineer under the laws of the State of Minnesota. Print Name: Douglas C. Mass

gnature: Jy/ M

Date: 08/16/10 Reg. No.: 21067

DEVISIONS

RE\	REVISIONS		
NO.	DESCRIPTION	DATE	
1	ADDENDUM 1	6.11.10	
	CONFORMANCE SET	7.12.10	
3	PERMIT REVISIONS	7.23.10	
	BUILDING PERMIT	8.16.10	
	100% REVIEW	12.17.10	
	BID PACKAGE 2A	1.24.11	
\triangle	BP2A ADDENDUM 2	2.25.11	

DATE ISSUED: 02-25-11

REVIEWED BY: MXB

DRAWN BY: JEH

DESIGNED BY: MXB

AEP PROJECT NUMBER 213-1882-091

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MECHANICAL DETAILS II

SHEET NUMBER

M502

BID PACKAGE 2A ADDENDUM 2